

APPENDIX 4

Sensitive Species

Appendix 5: Special-status Plants with Potential to Occur in the Middle Rosewood Creek Project Areas

Scientific Name	Common Name	Status ¹			Habitat	Project Area		
		Fed	State	Other		Known to Occur Within 0.5 mi	Habitat Within 0.5 mi	Reasoning
Plants								
<i>Arabis rectissima</i> var. <i>simulans</i>	Washoe tall rockcress	LSI			Dry, sandy, granitic or andesitic soil on mostly gentle slopes of all aspects, in full or filtered sunlight of thinly littered openings in mature, open <i>Pinus jeffreyi</i> - <i>Abies concolor</i> forests. Densities highest on very light and recovered disturbances, excluded from areas of bare ground, deep litter, dense tree or shrub cover, or intense disturbance.	Y	Y	A known population is recorded within 1 1/2 miles of project site at the west side of the stream on fill at the northeast corner of Harold and Village.
<i>Arabis rigidissima</i> var. <i>demota</i>	Galena Creek rockcress	FSS, SC 1,2	-	-	Species is found in open, rocky areas along forest edges of conifer and/or aspen stands. Usually found on northerly aspects above 7,500 feet (ft).	N	N	Outside of elevational range for species.
<i>Arabis tiehmii</i>	Tiehm rockcress	FSS, SC 1,2	-	-	Species is found on high elevation metavolcanic or decomposed granite ridges and steep slopes.	N	N	Outside of elevational range for species.
<i>Botrychium ascendens</i>	Upswept moonwort	FSS, SC 1,2	-	-	<i>Botrychium</i> species share similar preferences in habitat, i.e. wet or moist soils such as marshes, meadows, and along the edges of lakes and streams. They generally occur with mosses, grasses, sedges, rushes, and other riparian vegetation.	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Botrychium crenulatum</i>	Scalloped moonwort	FSS, SC 1,2	-	-	See above	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Botrychium lineare</i>	Slender moonwort	C, FSS	-	-	See above	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Botrychium lunaria</i>	Common moonwort	FSS, SC 1	-	-	See above	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Botrychium minganense</i>	Mingan moonwort	FSS	-	-	See above	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Botrychium montanum</i>	Western goblin	FSS	-	-	See above	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Bruchia bolanderi</i>	Bolander's candle moss	FSS	-	-	Montane meadows and steam banks are favored habitat. This moss tends to grow on bare, slightly eroding soil where there is little competition from other vegetation.	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Draba asterophora</i> var. <i>asterophora</i>	Tahoe draba	FSS, SC 2	-	TRPA	Species is found in rock crevices and open granite talus slopes at high elevations between 8,000 to 10,200 ft on north-east facing slopes.	N	N	Outside of elevational range for species.
<i>Draba asterophora</i> var. <i>macrocarpa</i>	Cup Lake draba	FSS, SC1		TRPA	This species is found on steep, gravelly or rocky slopes at elevations to 8,400 to 9,235 ft.	N	N	Outside of elevational range for species.
<i>Epilobium howellii</i>	Subalpine fireweed	FSS	-	-	Plants are known from wet meadows and mossy seeps at 6,500 to 9,000 ft in subalpine coniferous forest.	N	N	No know populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Erigeron miser</i>	Starved daisy	FSS	-	-	Plants are known from granitic rock outcrops above 6,000 ft.	N	N	Suitable habitat not present within Project area.
<i>Eriogonum umbellatum</i> var. <i>torreyanum</i>	Donner Pass buckwheat	FSS	-	-	This species grows in dry gravelly or stoney sites, often on harsh exposures such as ridge tops or steep slopes.	N	N	Suitable habitat not present within Project area.
<i>Hulsea brevifolia</i>	Short-leaved hulsea	FSS, SC 1	-	-	This species is found on gravelly soils within montane and mixed conifer forests, often with red fir between elevations of 4,900 and 8,900 ft.	N	N	Suitable habitat not present within Project area.
<i>Lewisia kelloggii</i> ssp. <i>Hutchinsonii</i>	Hutchinson's lewisia	FSS	-	-	Habitat for this plant occurs on ridge tops or flat open spaces with widely spaced trees and sandy granitic to erosive volcanic soil from about 5,000 to 7,000 ft.	N	N	Suitable habitat not present within Project area.

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<i>Lewisia kelloggii</i> ssp. <i>Kelloggii</i>	Kellogg's lewisia	FSS	-	-	See above	N	N	Suitable habitat not present within Project area.
<i>Lewisia longipetala</i>	Long-petaled lewisia	FSS, SC 1	-	TRPA	This species occurs on the northerly exposures on slopes and ridge tops at elevations between 8,000 and 12,500 ft.	N	N	Suitable habitat not present within Project area.
<i>Rorippa subumbellata</i>	Tahoe yellow cress	C, FSS	-	TRPA	This species grows within the shore zone of Lake Tahoe.	N	N	Shore zone area does not exist within the Project area.
Moss								
<i>Helodium blandowii</i>	Blandow's bog moss	FSS	-	-	Habitat for this moss is in bogs and fens, wet meadows, and along streams under willows.	N	N	No known populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
<i>Meesia triquetra</i>	Three-ranked hump-moss	FSS, SC 2	-	-	This moss prefers bogs and fen habitats, but is also found in very wet meadows.	N	N	Suitable habitat not present within Project area.
<i>Meesia uliginosa</i>	Broad-nerved hump-moss	FSS	-	-	This moss prefers bogs and fen habitats, but is also found in very wet meadows.	N	N	Suitable habitat not present within Project area.
<i>Meesia longisetata</i>	Long-stalked hump-moss	LSI	-	-	Usually in fens but sometimes along freshwater streams at high elevations	N	N	Suitable habitat not present within Project area.
<i>Myurella julaceae</i>	Myurella moss	LSI	-	-	Soil over rocks or within crevices of alpine boulders and rock fields, often within subalpine coniferous forest.	N	N	Suitable habitat not present within Project area.
<i>Orthotrichum praemorsum</i>	Orthotrichum moss	LSI	-	-	Shaded, moist habitats of Eastside Sierra Nevada rock outcrops up to 2,500 m (8,200 ft).	N	N	Suitable habitat not present within Project area.
<i>Orthotrichum shevockii</i>	Shevock's moss	LSI	-	-	Dry granitic rock outcrops in Carson Range, Douglas and Carson City Counties.	N	N	Suitable habitat not present within Project area.
<i>Orthotrichum spjutii</i>	Spjut's moss	LSI	-	-	Continually misted, shaded granitic rock faces at high elevations of Sonora Pass.	N	N	Suitable habitat not present within Project area.
<i>Pohlia tundrae</i>	Tundra pohlia moss	LSI	-	-	Gravelly, damp soils of alpine boulder and rock fields. Elevation ranges from 2,700 m (8,860 ft) to 3,000 m (9,840 ft).	N	N	Suitable habitat not present within Project area.
<i>Sphagnum</i> spp.	Sphagnum moss	LSI	-	-	Usually in fens and bogs, sometimes in very wet, non-acidic habitats that remain saturated.	N	N	Suitable habitat not present within Project area.
Lichen								
<i>Peltigera hydrothyria</i>	Veined water lichen	FSS	-	-	Species is found in cold unpolluted streams in mixed conifer forests.	N	N	No known populations recorded within 1 1/2 miles of project site. Marginal to poor habitat present on site.
Fungi								
<i>Dendrocollybia racemosa</i>	Branched collybia	FSS	-	-	This species is a mycoparasite growing on old decayed or blackened mushrooms or occasionally in coniferous duff, usually within old growth stands.	N	N	Suitable habitat not present within Project area.

^aStatus explanations

¹- LTBMU list revised November 2006

¹- No species in LTBMU are currently listed as threatened or endangered by USFWS under ESA.

¹- No species in LTBMU are currently listed as MIS

C = USFWS Candidate species for listing as threatened or endangered under ESA

SC = USFWS Species of concern (1 California SC, 2 Nevada SC)

FSS = LTBMU Sensitive Species, Regional Forester's Sensitive Species List

TRPA = TRPA special interest species, Regional Plan for the LTBMU: Goals and Policies (1986) and Code of Ordinances (1987)

LSI = USFS LTBMU Special Interest Species

Appendix 5: Special-status Wildlife with Potential to Occur in the Middle Rosewood Creek Project Areas

Scientific Name	Common Name	Status ¹			Habitat	Project Area		
		Fed	State	Other		Known to Occur Within 0.5 mi	Habitat Within 0.5 mi	Reasoning
Fishes								
<i>Gila bicolor pectinifer</i>	Lahontan Lake tui chub	FSS	-	-	Inhabit large, deep lakes. Tolerate a wide range of physiochemical water conditions. Spawn in near-shore shallow areas over beds of aquatic vegetation	N	N	Lake habitat does not occur within the Project area.
<i>Hypomesus transpacificus</i>	delta smelt	FT	-	-	Endemic to the upper San Francisco Estuary, principally in the Delta and Suisun Bay. Typically rear in open, shallow waters of the estuary.	N	N	This species does not occur in the Lake Tahoe Basin.
<i>Oncorhynchus clarkii henshawi</i>	Lahontan cutthroat trout	FT	S3	MIS, TRPA	Historically in all accessible cold waters of the Lahontan Basin in a wide variety of water temperatures and conditions. Requires gravel riffles in streams for spawning.	N	N	The Project reach does not provide adequate habitat and is isolated from potential habitat.
<i>Oncorhynchus mykiss</i>	rainbow trout	FT ³	-	MIS	Cold mountain streams, rivers, and lakes. Introduced throughout Tahoe basin as a game fish. FT status does not include the Lake Tahoe Basin population.	N	Y/N	The FT populations of <i>O. mykiss</i> do not occur in the Lake Tahoe Basin. Introduced populations, which are MIS but not FT, do occur in the Lake Tahoe Basin.
<i>Salvelinus fontinalis</i>	brook trout	-	-	MIS	Cold mountain streams and rivers. Introduced throughout Tahoe basin as a game fish.	N	Y	-
Invertebrates								
<i>Helisoma (Carniifex) newberryi</i>	Great Basin rams-horn	FSS	-	-	Larger lakes and slow rivers, including larger spring sources and spring-fed creeks. Characteristically burrow in mud.	N	Y	-
Reptiles and Amphibians								
<i>Rana muscosa</i>	mountain yellow-legged frog	FC	-	-	In the Sierra, this species is associated with streams, lakes, and ponds in montane riparian, lodgepole pine, subalpine conifer, and wet meadow habitat types, above 5,940 feet.	N	Y	-
<i>Rana pipiens</i>	northern leopard frog	FSS	-	-	Uncommon and localized in California. Occurs in or near quiet, permanent and semi-permanent water in many habitats. In northern California, the leopard frog is established in Modoc County, and possibly eastern Lassen County. The status of introduced populations in the Tahoe Basin is unknown. Elevation range extends from sea level to 7,000 ft.	N	Y	-
Birds								
<i>Accipiter gentilis</i>	northern goshawk	FSS	S3	MIS, TRPA	Within and in vicinity of coniferous forest. Uses old nests, and maintains alternate sites. Usually nests on north slopes, near water. Red fir, lodgepole pine, jeffrey pine, and aspens are typical nest trees.	N	N	May occur incidentally, but suitable nesting habitat does not occur within the Project area due to the potential for disturbance and lack of canopy.
<i>Anas platyrhynchos</i>	mallard	-	-	MIS	Found throughout the state in fresh emergent wetlands, estuarine, lacustrine, and riverine habitats, ponds, pastures, croplands, and urban parks; and less commonly on saline emergent wetlands and mudflats.	N	Y	-
<i>Aquila chrysaetos</i>	golden eagle	-	-	TRPA	Rolling foothills mountain areas, sage-juniper flats, desert. Cliff walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	N	N	Appropriate foraging and nesting habitat does not occur in the Project area.

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<i>Dendragapus obscurus</i>	blue grouse	-	-	MIS	Uncommon to common permanent resident at middle to high elevations. Occurs in open, medium to mature-aged stands of fir, Douglas-fir, and other conifer habitats, interspersed with medium to large openings, and available water.	N	Y	-
<i>Dryocopus pileatus</i>	pileated woodpecker	-	-	MIS	An uncommon, yearlong resident of mature, montane conifer habitats in the North Coast, Klamath, Cascade Ranges and the Sierra Nevada.	N	N	Not expected to occur - riparian habitat does occur, but the Project area lacks snags and is too vulnerable to disturbance for this species to occur.
<i>Empidonax traillii</i>	willow flycatcher	FSS	-	MIS	Inhabits extensive thickets of low, dense willows on edge of wet meadows, ponds, or backwaters; 2,000-8,000 feet elev. require dense willow thickets for nesting/roosting. low, exposed branches are used for singing posts/hunting perches.	N	Y	-
<i>Falco peregrinus anatum</i>	American peregrine falcon	FD	S2	MIS, TRPA	Uncommon breeding resident and uncommon as a migrant. Breeds in woodlands, forests, coastal habitats, and riparian areas near wetlands, lakes, rivers, or other water on high cliffs, banks, dunes, or mounds. Active nesting sites are known along the coast, in the Sierra Nevada, and in the mountains of northern California. Migrants occur along the coast and the western Sierra Nevada in spring and fall.	N	N	Not expected to occur - appropriate nesting and foraging habitat does not occur in the Project area.
<i>Haliaeetus leucocephalus</i>	bald eagle	FT	S1B	MIS, TRPA	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mi of water. Nests in large, old-growth, or dominant live tree w/open branches, especially ponderosa pine. Roosts communally in winter.	N	N	Not expected to occur - appropriate nesting, foraging, and perching habitat does not occur in the Project area.
<i>Pandion haliaetus</i>	osprey	-	-	TRPA	Ocean shore, bays, fresh-water lakes, and larger streams. Large nests built in tree-tops within 15 miles of good fish-producing body of water.	N	N	Not expected to occur - appropriate nesting and foraging habitat does not occur in the Project area.
<i>Strix nebulosa</i>	great gray owl	FSS	-	-	Resident of mixed conifer or red fir forest habitat, in or on edge of meadows. Require large diameter snags in a forest with high canopy closure, which provide a cool sub-canopy microclimate.	N	N	Not expected to occur - appropriate nesting and foraging habitat does not occur in the Project area.
<i>Strix occidentalis occidentalis</i>	California spotted owl	FSS	S1N	MIS	Resides in dense, old growth, multi-layered mixed conifer, redwood, Douglas fir, and oak woodland habitats, from sea level up to approximately 7600 feet.	N	N	Not expected to occur - appropriate nesting and foraging habitat does not occur in the Project area.
--	waterfowl	-	-	TRPA	Preferred habitats for waterfowl includes marsh, wet meadow, creek drainage, and along the shallow shoreline of lakes.	Y	Y	-
Mammals								
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	FSS	S3B	-	Found throughout California in all but subalpine and alpine habitats, and may be found at any season throughout its range. Once considered common, now considered uncommon in California. It is most abundant in mesic habitats.	N	N	Not expected to occur - no known abandoned structures within the Project area and vicinity.

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<i>Gulo gulo</i>	California wolverine	FSS	-	-	Mixed conifer, red fir, and lodgepole habitats, and probably sub alpine conifer, alpine dwarf shrub, wet meadow, and montane riparian habitats. Occurs in the Sierra Nevada from 4,300 to 10,800 feet. Majority of recorded sightings are found above 8,000 ft elevation.	N	N	Not expected to occur in the Project area - disturbance from residential area.
<i>Martes americana sierrae</i>	Sierra Marten	FSS	-	-	Mixed evergreen forests with more than 40% crown closure along north coast, Sierra Nevada, and Klamath and Cascade Ranges. Needs variety of different-aged stands, particularly old-growth conifers and snags which provide cavities for dens/nests.	N	N	Not expected to occur aside from incidentally - no snags or logs for denning or cover.
<i>Odocoileus hemionus</i>	mule deer	-	-	MIS, TRPA	Common to abundant, yearlong resident or elevational migrant with a widespread distribution throughout most of California, except in deserts and intensively farmed areas without cover. Occur in early to intermediate successional stages of most forest, woodland, and brush habitats. Prefer a mosaic of various-aged vegetation that provides woody cover, meadow and shrubby openings, and free water.	N	Y	-
<i>Ursus americanus</i>	black bear	-	-	MIS	Widespread, common to uncommon resident occurring from sea level to high mountain regions. Found in the North Coast Ranges, Cascades, Sierra Nevada, parts of the South Coast Ranges, and in the San Gabriel and San Bernardino Mts. Occurs in fairly dense, mature stands of many forest habitats, and feeds in a variety of habitats including brushy stands of forest, valley foothill riparian, and wet meadow.	N	Y	-
<i>Vulpes vulpes necator</i>	Sierra Nevada red fox	FSS	-	-	Occurs throughout the Sierra Nevada at elevations above 7,000 feet in forests interspersed with meadows or alpine forests. Open areas are used for hunting, and forested habitats are used for cover and reproduction.	N	N	Not expected to occur in the Project area - elevation, disturbance from residential area.

¹ Status

Federal - USFWS

FT = Federal listed species

FC = Federal candidate for Proposed listing

FD = Delisted

S1 = Critically imperiled due to extreme rarity, imminent threats, or and/or biological factors

S2 = Imperiled due to rarity and/or other demonstrable factors

S3 = Rare and local throughout its range, or with very restricted range, or otherwise vulnerable to extinction

_B = Breeding status within the state; rank for breeding occurrences only

_N = Non-breeding status within the state; rank for non-breeding occurrences only


FSS = LTBMU Forest Service sensitive

MIS = LTBMU management indicator species

TRPA = TRPA special interest species

² Source: NatureServe 2006

³ Federal "threatened" listing does not include Lake Tahoe Basin populations.

: These species do not need to be analyzed in the USFS BE or MIS Assessment